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# Author Correction: Sentinel optical and SAR data highlights multi-segment faulting during the 2018 Palu-Sulawesi earthquake ( $M_w$ 7.5)

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Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-020-66032-7>, published online 04 June 2020

In this Article, two References have been omitted for the Geohazards Exploitation Platform data processing tools. These are included below as References 1 and 2, and should be cited in the Observations section, under the subheading “Post-seismic surface velocity map” as below:

“The computation was performed via the Parallel Small Baseline tools provided by the Geohazards Exploitation Platform<sup>22,23</sup> (P-SBAS).”

should read:

“The computation was performed via the Parallel-Small Baseline Subset (P-SBAS) service<sup>1,2</sup> implemented on the Geohazards Exploitation Platform<sup>22,23</sup>.”

Additionally, there is an error in the strike angle parameter of the Off-shore section of the Palu-Koro Fault. As a result of this, in the Observations section, under the subheading “Models”, in the first paragraph:

“It runs northward along the western coast of Palu bay with a  $-7.7^\circ$  strike angle, and gets closer to the North direction toward the northern limit we arbitrarily set few kilometers westward the western coast of Sulawesi Neck (ending point:  $0.20^\circ\text{N}$ ,  $119.61^\circ\text{E}$ )—Fig. 1b.”

should read:

““It runs northward along the western coast of Palu bay with a  $-20.9^\circ$  strike angle, and gets closer to the North direction toward the northern limit we arbitrarily set few kilometers westward the western coast of Sulawesi Neck (ending point:  $0.20^\circ\text{N}$ ,  $119.61^\circ\text{E}$ )—Fig. 1b.”

and in the Methods section, under the subheading “Palu-Koro and Palu-Sulawesi Neck Faults”, in the second paragraph:

“The PKF off-shore section has been delineated following these references<sup>29,30</sup>; it is a  $\sim 130$  km long fault whose south limits is connected to the PKF onshore section at the Palu city location and runs northward along the Palu Bay west coast with a  $-7.7^\circ$  strike angle.”

should read:

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“The PKF off-shore section has been delineated following these references<sup>29,30</sup>; it is a ~ 130 km long fault whose south limits is connected to the PKF onshore section at the Palu city location and runs northward along the Palu Bay west coast with a – 20.9° strike angle.”

## References

1. Casu, F. *et al.* SBAS-DInSAR parallel processing for deformation time-series computation. *IEEE J. Sel. Top. Appl. Earth Obs. Remote Sens.* 7(8), 3285–3296. <https://doi.org/10.1109/JSTARS.2014.2322671> (2014).
2. Manunta, M. The parallel SBAS approach for sentinel-1 interferometric wide swath deformation time-series generation: Algorithm description and products quality assessment. *IEEE Trans. Geosci. Remote Sens.* 57(9), 6259–6281. <https://doi.org/10.1109/TGRS.2019.2904912> (2019).



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